

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/20/00

Date Received: 12/08/00

Project: Metro Self Monitor, PO# M84110

Date Extracted: 12/15/00

Date Analyzed: 12/18/00

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M84110 012026-01	1.3	1.2	1.5	0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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QUALITY ASSURANCE RESULTS FOR TOTAL METALS IN WATER BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 012026-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	1.3	1.3	0	0-20
Copper	mg/L (ppm)	1.2	1.1	9	0-20
Nickel	mg/L (ppm)	1.5	1.6	6	0-20
Zinc	mg/L (ppm)	0.05	0.06	18	0-20

Laboratory Code: 012026-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	1.3	94	98	80-120	4
Copper	mg/L (ppm)	5	1.2	91	106	80-120	15
Nickel	mg/L (ppm)	10	1.5	95	97	80-120	2
Zinc	mg/L (ppm)	5	0.05	109	101	80-120	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Chromium	mg/L (ppm)	5	97	101	80-120	4
Copper	mg/L (ppm)	5	100	105	80-120	5
Nickel	mg/L (ppm)	10	98	101	80-120	3
Zinc	mg/L (ppm)	5	102	106	80-120	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

December 20, 2000

DUPLICATE COPY

INVOICE #00ACU1220-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M84110 - Results of testing requested by
Gerry Thompson for material submitted on December 8, 2000.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010 @ \$80 per sample	<u>\$ 80.00</u>
Amount Due	\$ 80.00

FEDERAL TAX ID (b) (6)

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Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

December 20, 2000

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

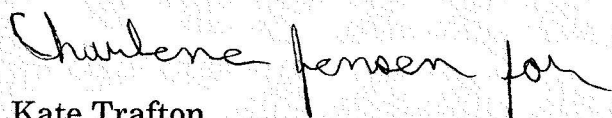
Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 8, 2000 from your Metro Self Monitor, PO# M84110 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kate Trafton
Project Manager

Enclosures
ACU1220R.DOC

012026

SAMPLE CHAIN OF CUSTODY

KT 12.8.00 AI 1

Send Report To Gerald A. ThompsonCompany Alaskan Earth WorksAddress 628 1st Ave SECity, State, ZIP Seattle WA 98184Phone # 206-382-8379 Fax # 206-382-9809

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

METRO Self monitor

M84110

REMARKS

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TURNAROUND TIME

☒ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
M84110	01	12-8-00	12:30	H2O	1							CE	Cu	Ni	Zn	
												✓	✓	✓	✓	

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Gerald A. Thompson</u>	Gerald A. Thompson	AEW	12/8/00	1:15pm
Received by: <u>S. Osborn</u>	S. Osborn	F&B, Inc	12/8/00	✓
Relinquished by:				
Received by:				